

## A B S T R A C T

The invention concerns a method of routing between a source node and a destination node in a network having nodes connected by links, compression being used on at least one of said links, the method comprising at least two routing calculation steps for a given number of compressions, i.e. in a plane  $P(y)$ . A routing calculation step for a given number of compressions uses information obtained during a routing calculation step for a number of compressions less than said given number. In this way a cost function can be minimized whilst assuring that in the route obtained the total number of compressions remains less than a maximum value. The route can be calculated for a given number of compressions using the Dijkstra algorithm and verifying the number of compressions when adding a node to the route. In this case, on reaching a link for which the given number of compressions is exceeded, the distance to the source node is saved for a subsequent calculation step.

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